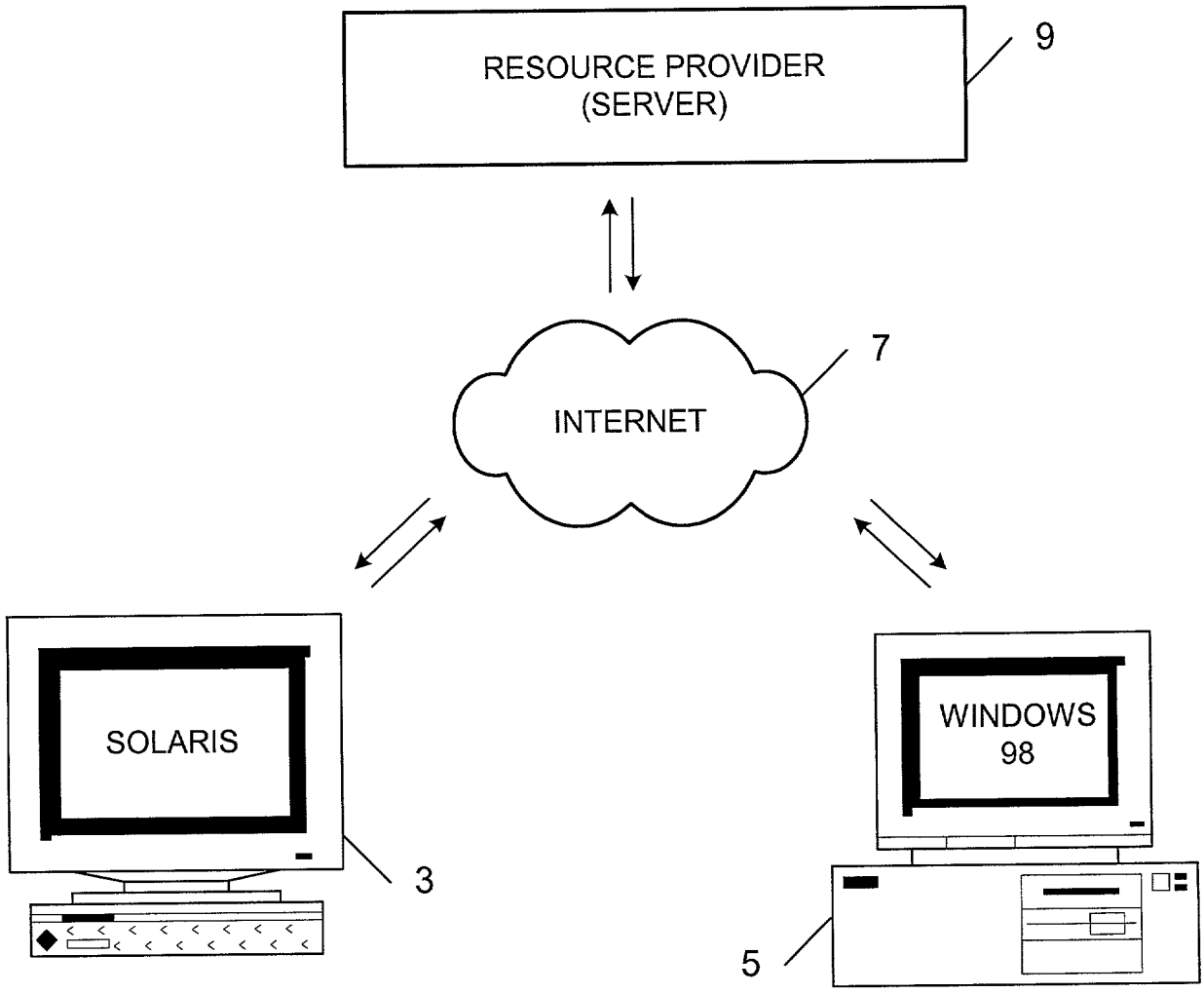
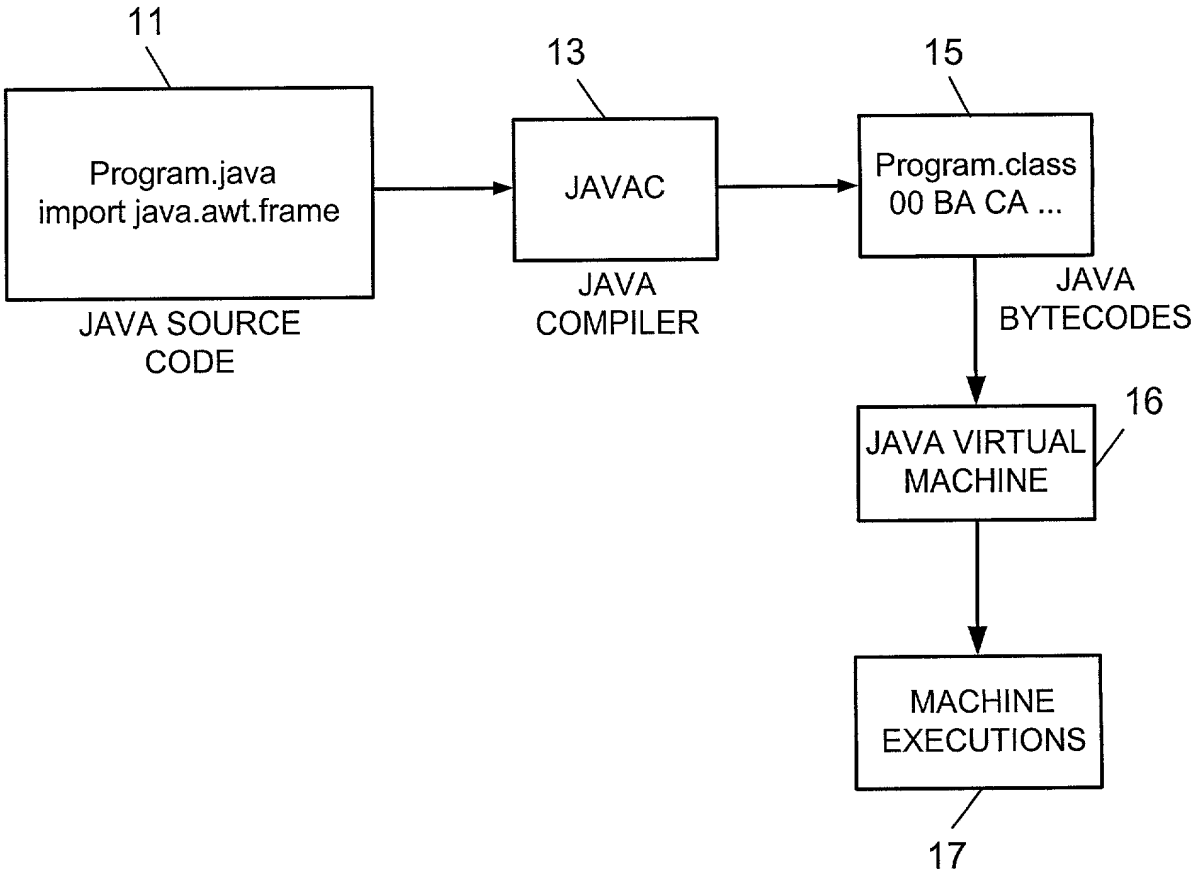
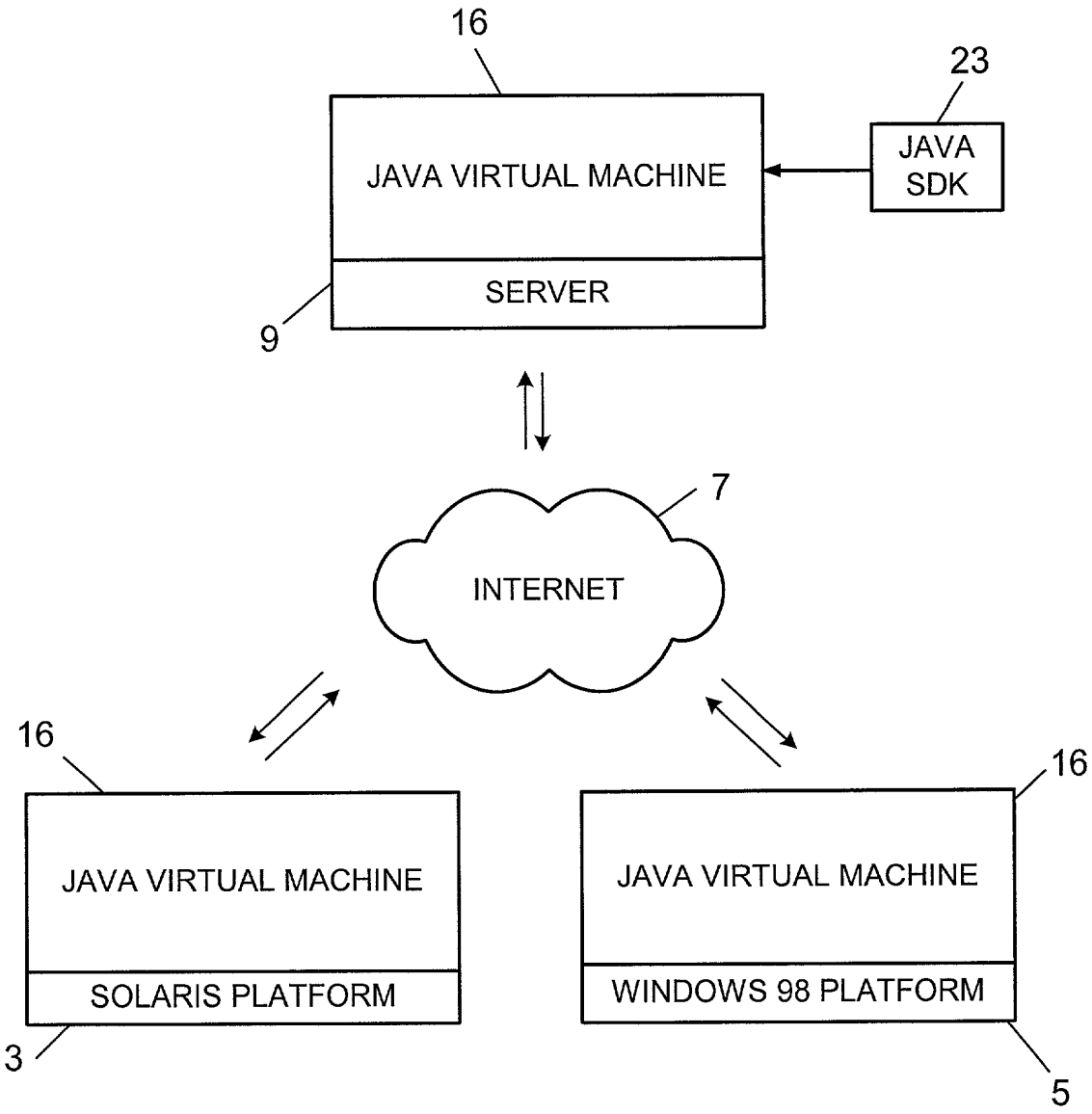



*(PRIOR ART)*
*FIGURE 1*

Patent Application Publication




*(PRIOR ART)*
*FIGURE 2*




*(PRIOR ART)*
*FIGURE 3*

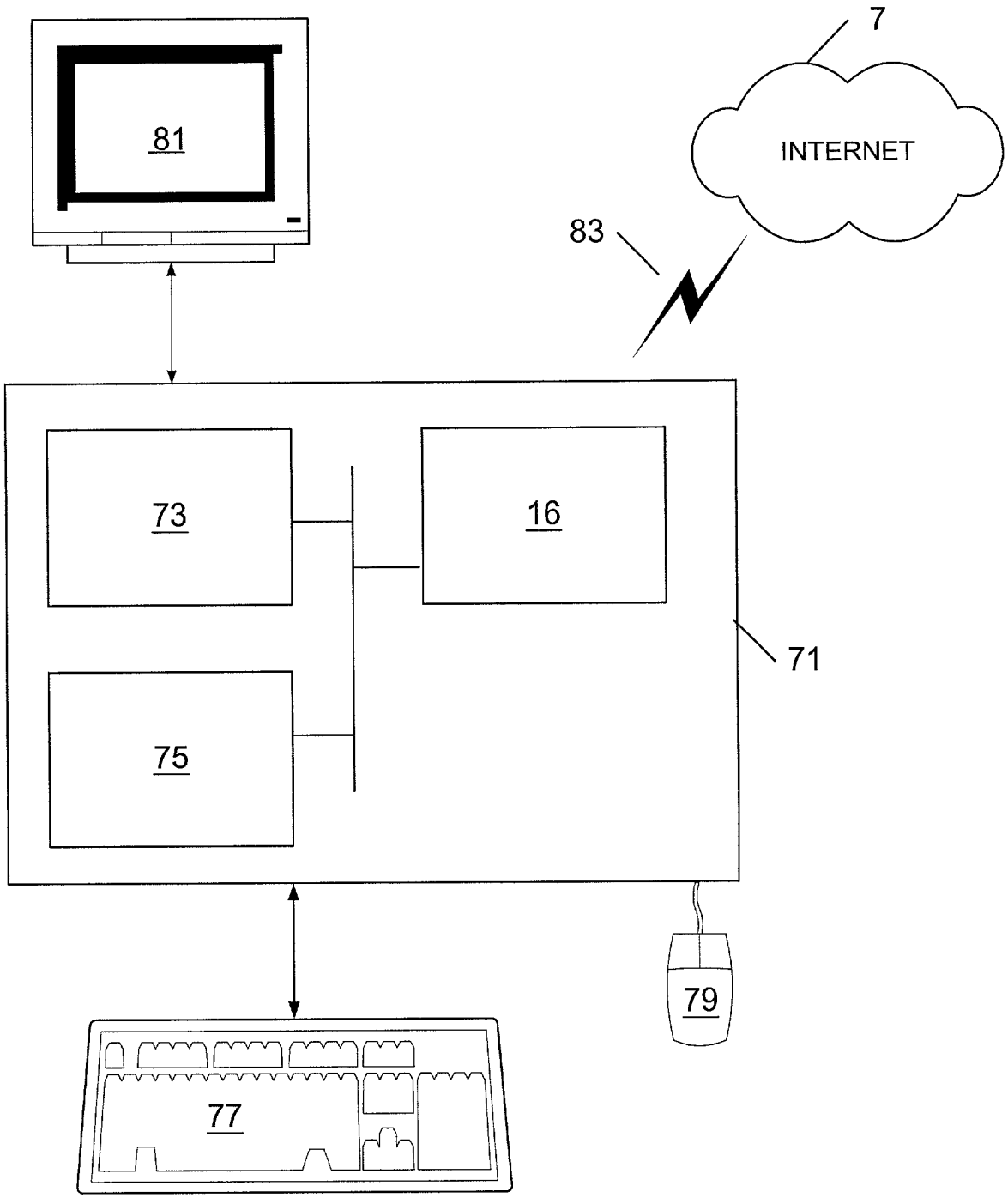



*FIGURE 4*
*(PRIOR ART)*

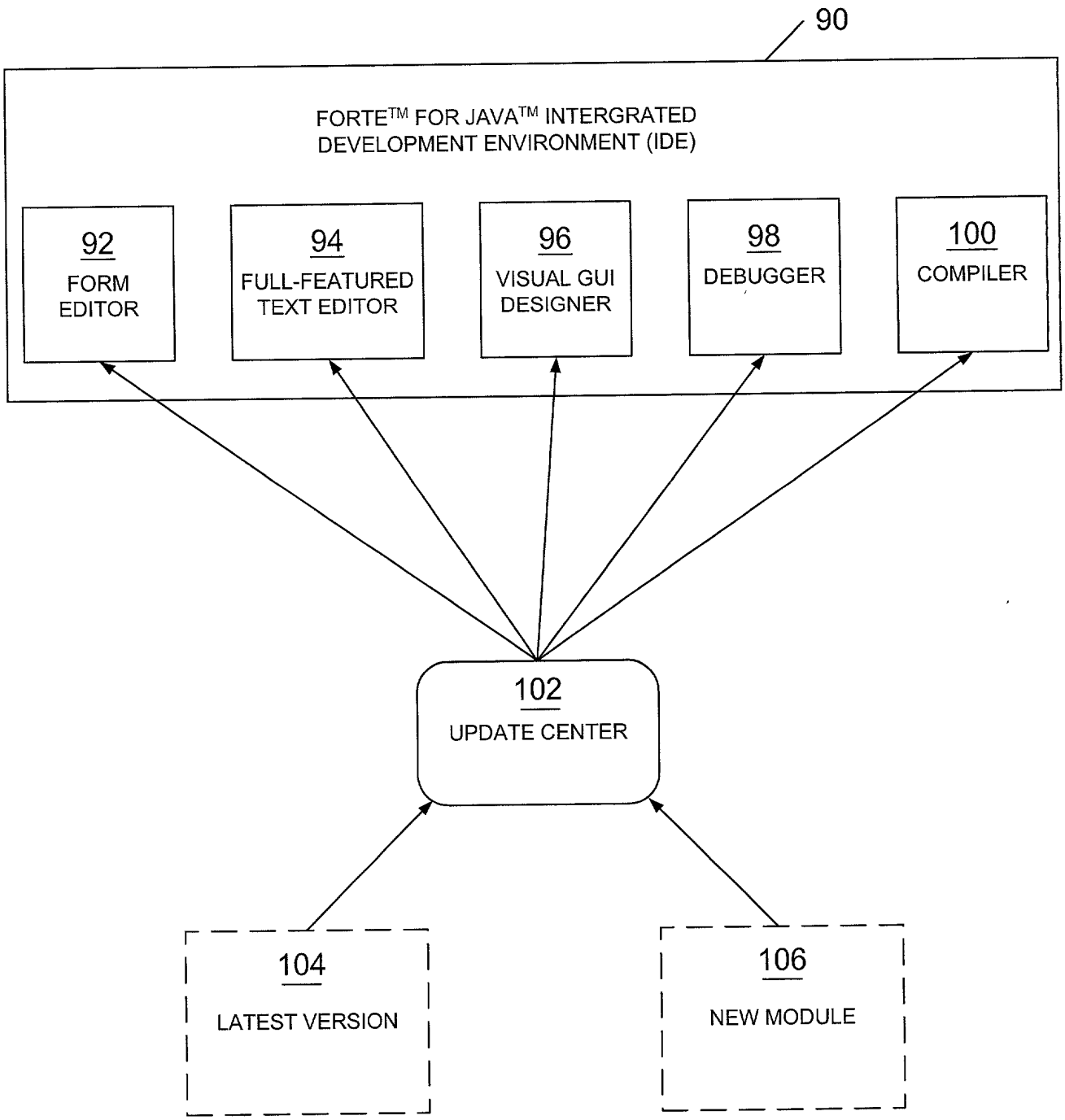



*FIGURE 5*

*(PRIOR ART)*

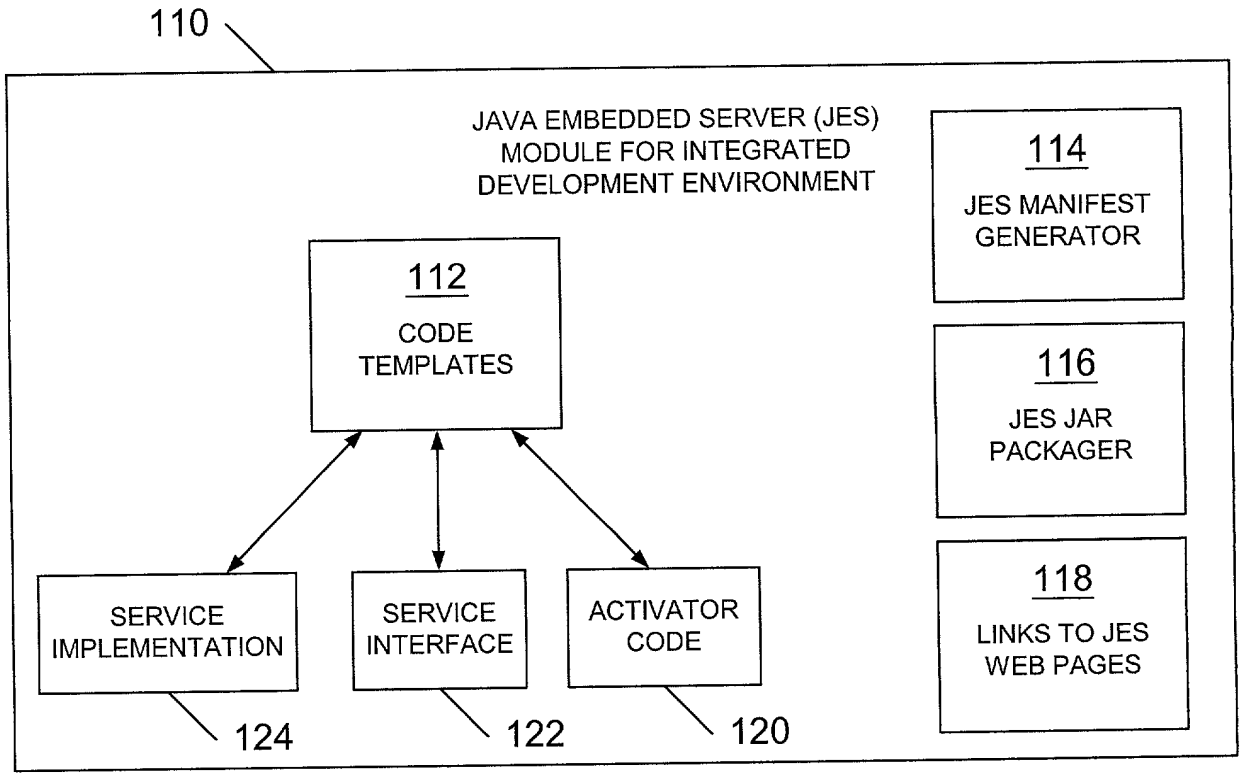

110
JAVA EMBEDDED SERVER (JES) MODULE FOR INTEGRATED DEVELOPMENT ENVIRONMENT
112
CODE TEMPLATES
114
JES MANIFEST GENERATOR
116
JES JAR PACKAGER
118
LINKS TO JES WEB PAGES
SERVICE IMPLEMENTATION
SERVICE INTERFACE
ACTIVATOR CODE
124
122
120

*FIGURE 6*

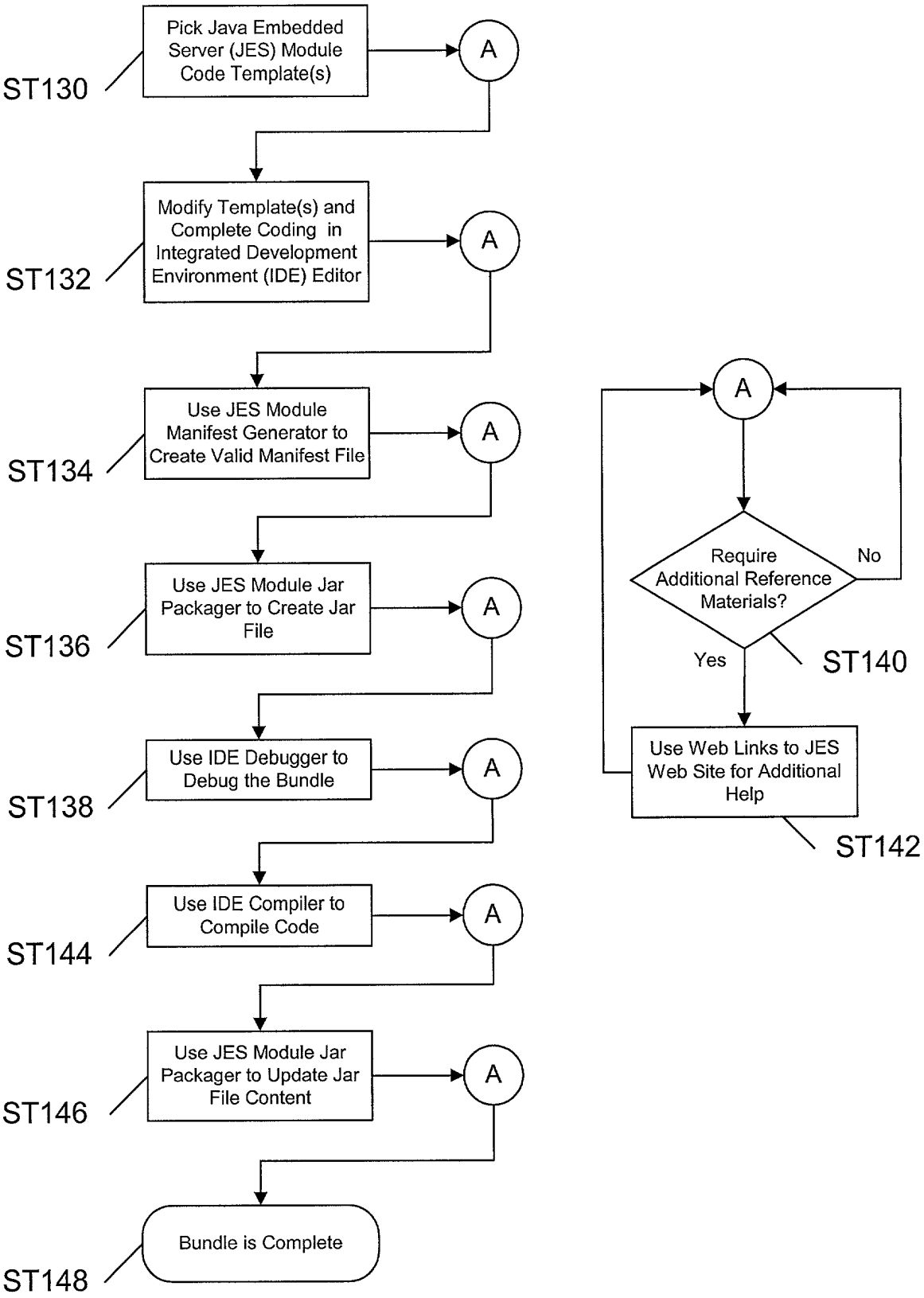

Pick Java Embedded Server (JES) Module Code Template(s)
ST130
A
Modify Template(s) and Complete Coding in Integrated Development Environment (IDE) Editor
ST132
A
Use JES Module Manifest Generator to Create Valid Manifest File
ST134
A
Use JES Module Jar Packager to Create Jar File
ST136
A
Use IDE Debugger to Debug the Bundle
ST138
A
Use IDE Compiler to Compile Code
ST144
A
Use JES Module Jar Packager to Update Jar File Content
ST146
A
Bundle is Complete
ST148
A
Require Additional Reference Materials?
No
Yes
ST140
Use Web Links to JES Web Site for Additional Help
ST142

FIGURE 7

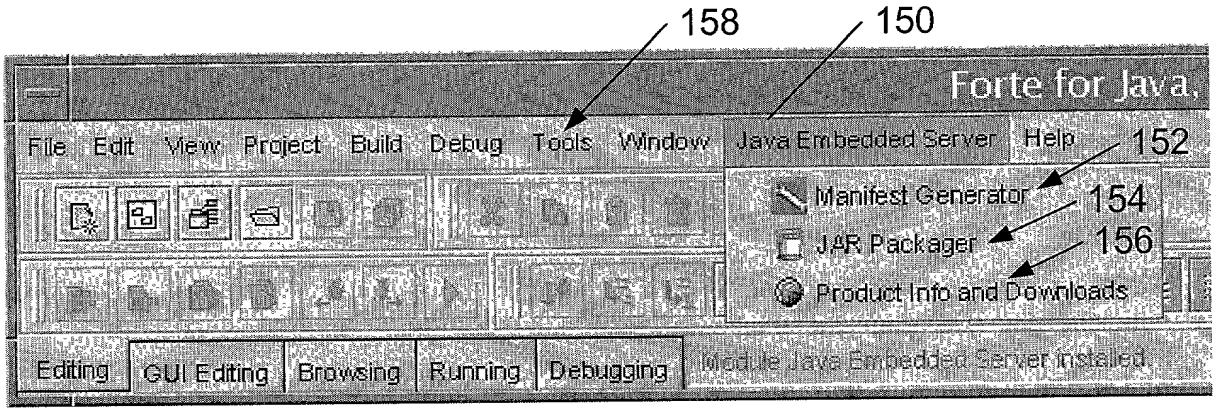

158
150
Forte for Java
File
Edit
View
Project
Build
Debug
Tools
Window
Java Embedded Server
Help
152
Manifest Generator
154
JAR Packager
156
Product Info and Downloads
Editing
GUI Editing
Browsing
Running
Debugging
Module Java Embedded Server installed

FIGURE 8

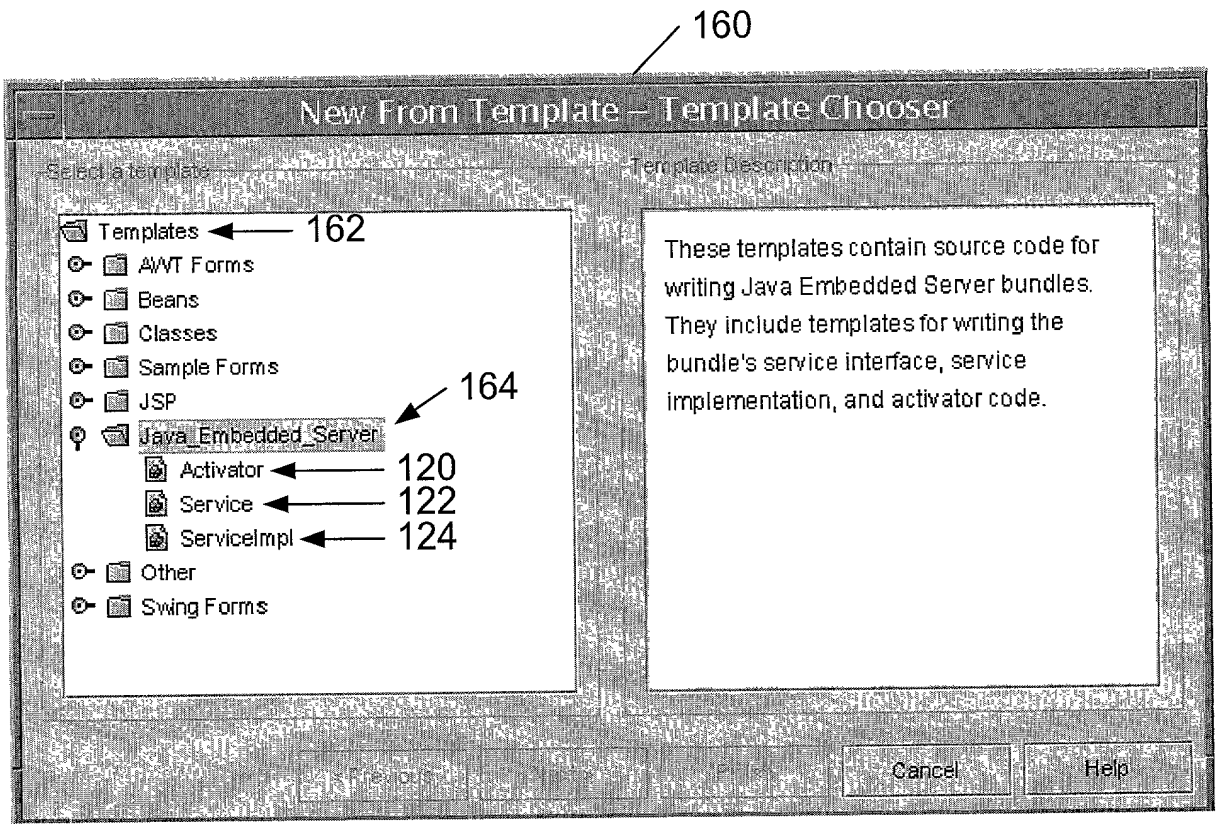
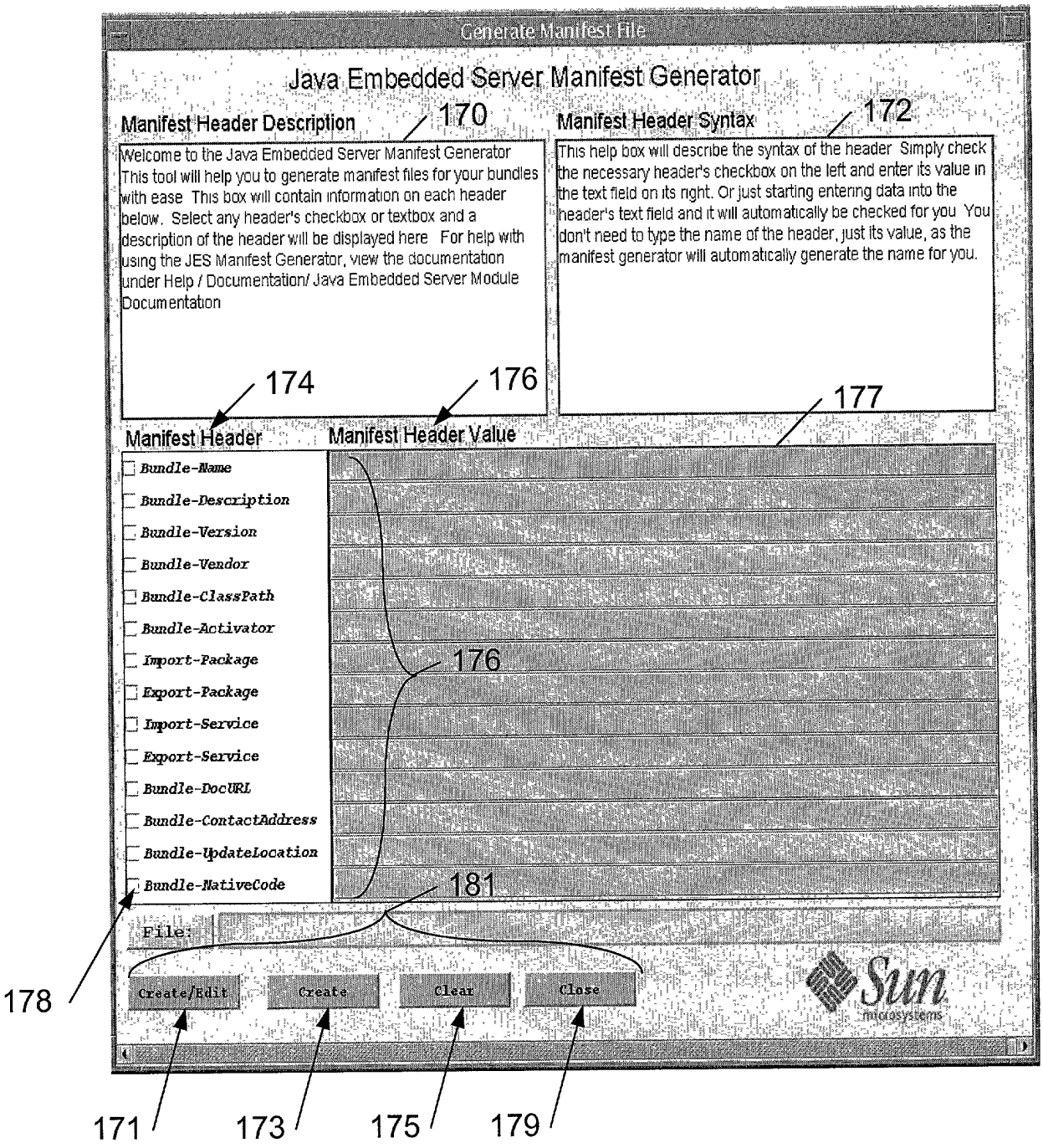

160
New From Template – Template Chooser
Select a template:
Template Description:
Templates
162
AWT Forms
Beans
Classes
Sample Forms
JSP
164
Java_Embedded_Server
Activator
120
Service
122
ServiceImpl
124
Other
Swing Forms
These templates contain source code for writing Java Embedded Server bundles. They include templates for writing the bundle's service interface, service implementation, and activator code.
Cancel
Help

FIGURE 9


Generate Manifest File
Java Embedded Server Manifest Generator
Manifest Header Description
170
Welcome to the Java Embedded Server Manifest Generator This tool will help you to generate manifest files for your bundles with ease This box will contain information on each header below. Select any header's checkbox or textbox and a description of the header will be displayed here For help with using the JES Manifest Generator, view the documentation under Help / Documentation/ Java Embedded Server Module Documentation
Manifest Header Syntax
172
This help box will describe the syntax of the header Simply check the necessary header's checkbox on the left and enter its value in the text field on its right. Or just starting entering data into the header's text field and it will automatically be checked for you You don't need to type the name of the header, just its value, as the manifest generator will automatically generate the name for you.
174
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177
Manifest Header
Manifest Header Value
Bundle-Name
Bundle-Description
Bundle-Version
Bundle-Vendor
Bundle-ClassPath
Bundle-Activator
Import-Package
Export-Package
Import-Service
Export-Service
Bundle-DocURL
Bundle-ContactAddress
Bundle-UpdateLocation
Bundle-NativeCode
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File:
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Create/Edit
Create
Clear
Close
Sun
microsystems
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FIGURE 10

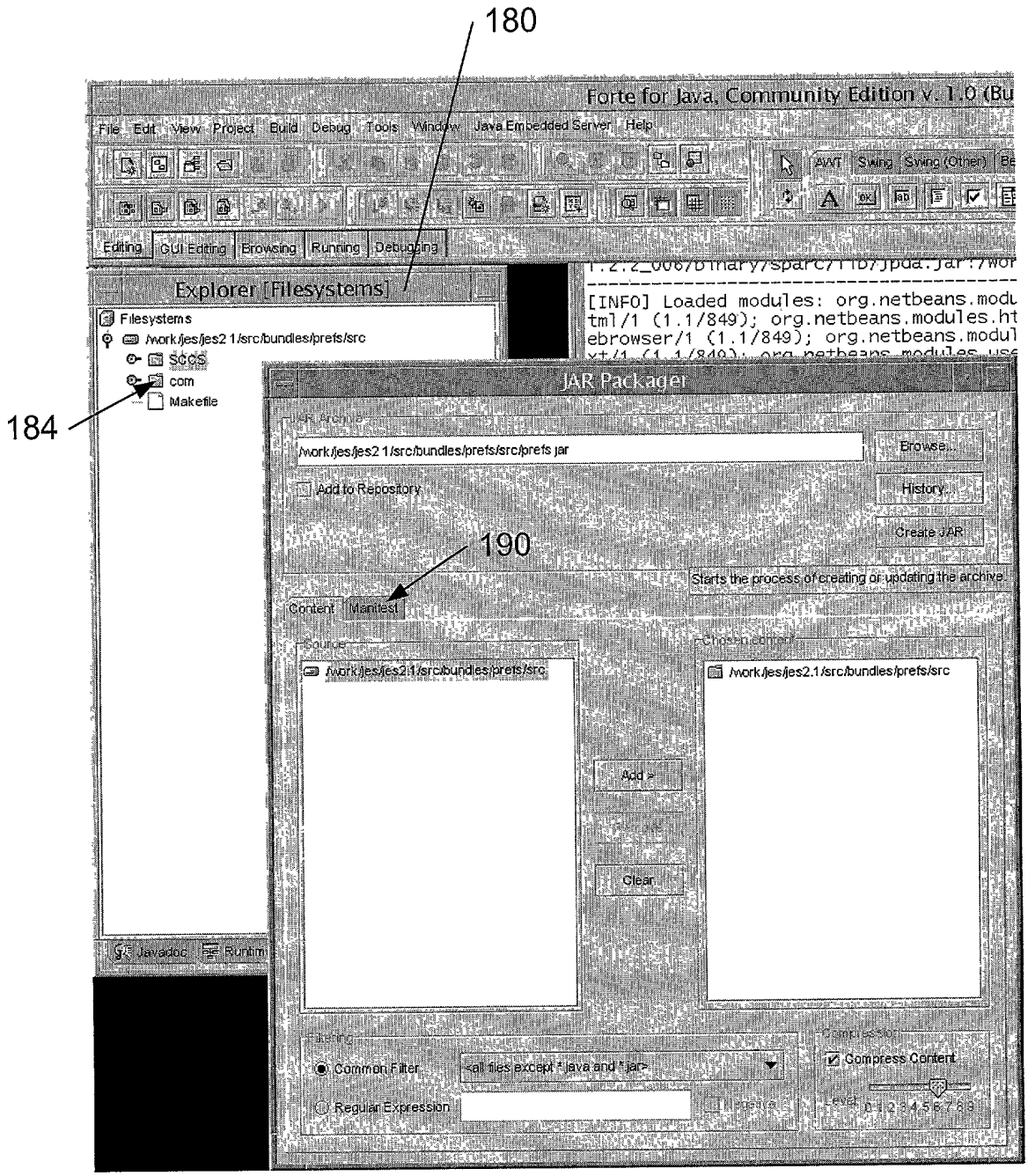
180
184
190
Forte for Java, Community Edition v. 1.0 (Bu
File Edit View Project Build Debug Tools Window Java Embedded Server Help
AWT Swing Swing (Other)
Editing GUI Editing Browsing Running Debugging
Explorer [Filesystems]
Filesystems
/work/jes/jes2.1/src/bundles/prefs/src
SCCS
com
Makefile
[INFO] Loaded modules: org.netbeans.modu
tml/1 (1.1/849); org.netbeans.modules.ht
ebrowser/1 (1.1/849); org.netbeans.modul
JAR Packager
/work/jes/jes2.1/src/bundles/prefs/src/prefs.jar
Browse...
Add to Repository
History...
Create JAR
Starts the process of creating or updating the archive
Content Manifest
Source
/work/jes/jes2.1/src/bundles/prefs/src
Chosen content
/work/jes/jes2.1/src/bundles/prefs/src
Add >
Clear
Javadoc Runtim
Common Filter
<all files except *.java and *.jar>
Regular Expression
Compress Content
Level 0 1 2 3 4 5 6 7 8 9

FIGURE 11

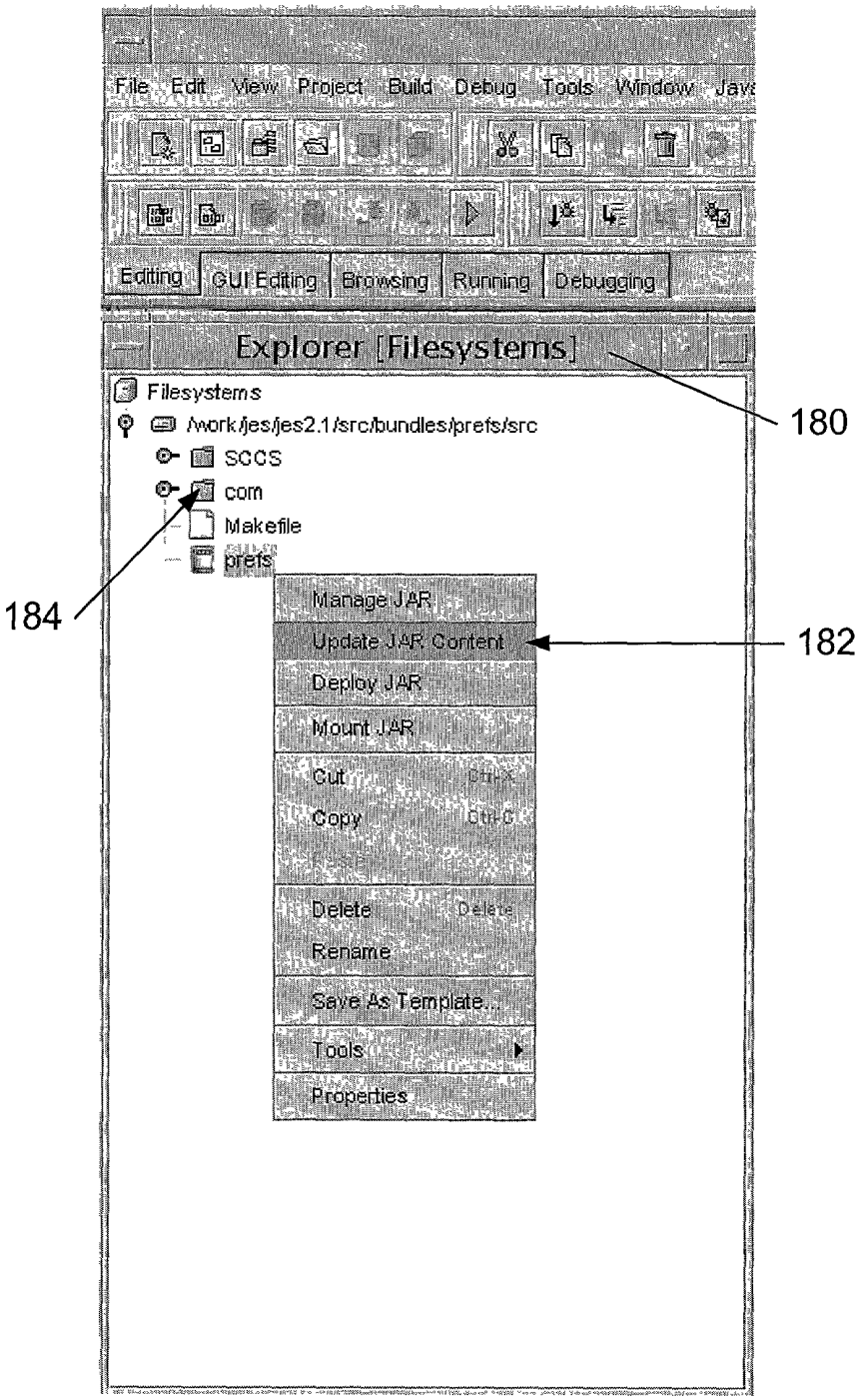
File Edit View Project Build Debug Tools Window
Editing GUI Editing Browsing Running Debugging
Explorer [Filesystems]
Filesystems
/work/jes/jes2.1/src/bundles/prefs/src
SCCS
com
Makefile
prefs
Manage JAR
Update JAR Content
Deploy JAR
Mount JAR
Cut Ctrl-X
Copy Ctrl-C
Delete Delete
Rename
Save As Template...
Tools
Properties
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FIGURE 12